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Search Results - Record(s) 1 through 4 of 4 returned.

1. Document ID: US 6823336 B1

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L2: Entry 1 of 4

File: USPT

Nov 23, 2004

US-PAT-NO: 6823336

DOCUMENT-IDENTIFIER: US 6823336 B1

TITLE: Data storage system and method for uninterrupted read-only access to a consistent dataset by one host processor concurrent with read-write access by another host processor

DATE-ISSUED: November 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Srinivasan; Sudhir	Chelmsford	MA		
Vahalia; Uresh	Waban	MA		
Gupta; Uday K.	Westford	MA		
Armangau; Philippe	Acton	MA		

US-CL-CURRENT: 707/8; 707/201

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KINIC](#) | [Drawn Fig.](#)

2. Document ID: US 5923557 A

L2: Entry 2 of 4

File: USPT

Jul 13, 1999

US-PAT-NO: 5923557

DOCUMENT-IDENTIFIER: US 5923557 A

TITLE: Method and apparatus for providing a standard interface to process control devices that are adapted to differing field-bus protocols

DATE-ISSUED: July 13, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eidson; John C.	Palo Alto	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY	TYPE	CODE
Hewlett-Packard Company	Palo Alto	CA					02

APPL-NO: 08/904364 [PALM]
DATE FILED: August 1, 1997

INT-CL: [06] G06 F 7/00

US-CL-ISSUED: 364/471.03; 364/133, 364/138, 710/72, 395/200.54, 395/200.8
US-CL-CURRENT: 700/129; 700/4, 700/9, 709/224, 709/250, 710/72

FIELD-OF-SEARCH: 364/130, 364/131, 364/132, 364/133, 364/134, 364/138, 364/188,
364/189, 364/471.03, 395/200.6-200.67, 395/831, 395/885, 395/892, 395/200.54,
395/200.8, 370/466, 370/469, 710/72

PRIOR-ART-DISCLOSED:

U. S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4517637</u>	May 1985	Cassell	364/138
<u>5166678</u>	November 1992	Warrior	
<u>5680552</u>	October 1997	Netravali et al.	395/200.8
<u>5732213</u>	March 1998	Gessel et al.	395/200.54
<u>5764891</u>	June 1998	Warrior	395/200.2
<u>5768119</u>	June 1998	Havekost et al.	364/133
<u>5771174</u>	June 1998	Spinner et al.	

ART-UNIT: 276

PRIMARY-EXAMINER: Grant; William

ASSISTANT-EXAMINER: Rapp; Chad

ABSTRACT:

A method and apparatus is disclosed that provides a standard interface to process control devices which are adapted to differing field-bus protocols. The techniques disclosed herein enable integration of process control devices adapted to differing field-bus protocols while avoiding the use of protocol gateways which would otherwise greatly complicate the task of developing process control application programs.

13 Claims, 3 Drawing figures

3. Document ID: US 6823336 B1

L2: Entry 3 of 4

File: DWPI

Nov 23, 2004

DERWENT-ACC-NO: 2005-009896

DERWENT-WEEK: 200501

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TITLE: Data storage system operating method for e.g. business transaction and accounting application, involves obtaining specified data from one set of revisions if they are in set, else obtaining from dataset

INVENTOR: ARMANGAU, P; GUPTA, U K ; SRINIVASAN, S ; VAHALIA, U

PRIORITY-DATA: 2000US-0669939 (September 26, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 6823336 B1</u>	November 23, 2004		026	G06F017/30

INT-CL (IPC): G06 F 17/30

ABSTRACTED-PUB-NO: US 6823336B

BASIC-ABSTRACT:

NOVELTY - The method involves processing one set of revisions to build up a directory (47). Another set of revisions is processed to build up a directory (48). A read access to specified data in a dataset is performed by accessing the directory (47) to find whether the data are in the former set. The data are obtained from the former set if they are in the former set, else the data are obtained from the dataset.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(A) a data storage system having a data storage and a storage controller

(B) a program storage device having a program for a storage controller of a data storage system.

USE - Used for operating a data storage system in a data processing system that is utilized for a transaction processing application e.g. business transaction, and accounting application.

ADVANTAGE - The specified data are obtained from the primary set of revisions if they are in the primary set, else the specified data are obtained from the dataset, thus providing to a host processor, an uninterrupted read access to the consistent dataset.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram depicting a control flow through a secondary data storage system of a data processing system.

Storage A of dataset revisions 43

Storage B of dataset revisions 44

Switches 45,46

Directories 47,48

Dataset directory 49

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Drawn D.
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4. Document ID: EP 895145 A1, US 5923557 A, JP 11126104 A

L2: Entry 4 of 4

File: DWPI

Feb 3, 1999

DERWENT-ACC-NO: 1999-108582

DERWENT-WEEK: 199934

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TITLE: Standard interface-providing apparatus for process control device - has system for obtaining information describing process control device according to protocol, and system enabling application to access information

INVENTOR: EIDSON, J C

PRIORITY-DATA: 1997US-0904364 (August 1, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 895145 A1	February 3, 1999	E	014	G05B019/05
US 5923557 A	July 13, 1999		000	G06F007/00
JP 11126104 A	May 11, 1999		013	G05B019/05

INT-CL (IPC): [G05 B 15/02](#); [G05 B 19/05](#); [G06 F 7/00](#); [G06 F 13/36](#); [H04 L 12/46](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Drawn D.
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"6823336"	2
6823336S	0
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(L1 OR (6823336.PN.)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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[Previous Page](#)[Next Page](#)[Go to Doc#](#)